

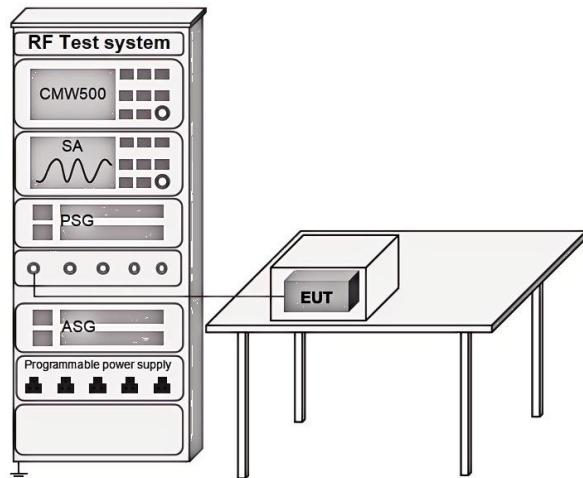
6.3 Conducted Peak output Power

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.3.1 Limit

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

6.3.2 Test setup



6.3.3 Test data

Note: PK power sensor is used to read PK Conducted power power directly

Pass: Please refer to appendix A for details

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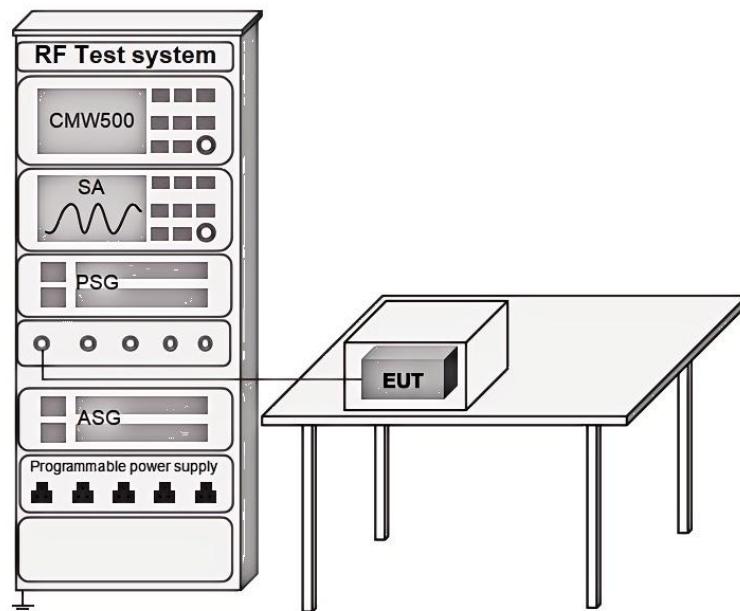
6.4 Minimum 6dB bandwidth

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.4.1 Limit

≥500 kHz

6.4.2 Test setup



6.4.3 Test data

Pass: Please refer to appendix A for details

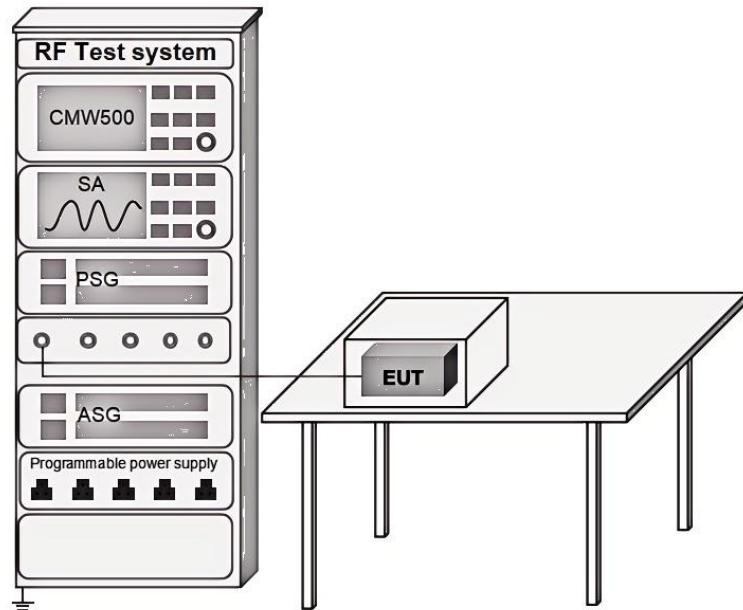
6.5 Power spectrum density

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.5.1 Limit

≤8dBm in any 3 kHz band during any time interval of continuous transmission

6.5.2 Test setup



6.5.3 Test data

Pass: Please refer to appendix A for details

6.6 Conducted Band Edges Measurement

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.6.1 Limit

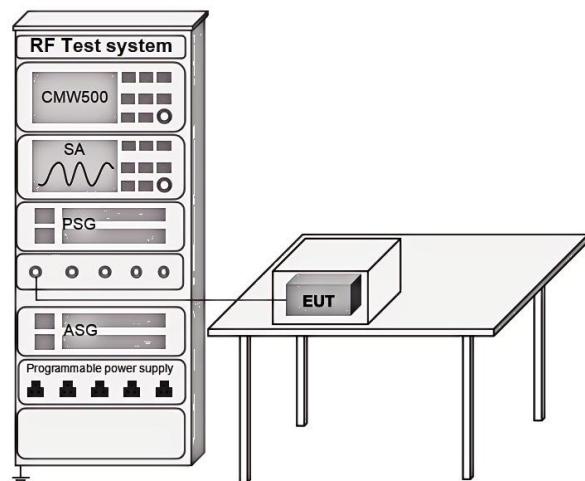
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.6.2 Test setup



6.6.3 Test data

Pass: Please refer to appendix A for details

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6.7 Conducted spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.7.1 Limit

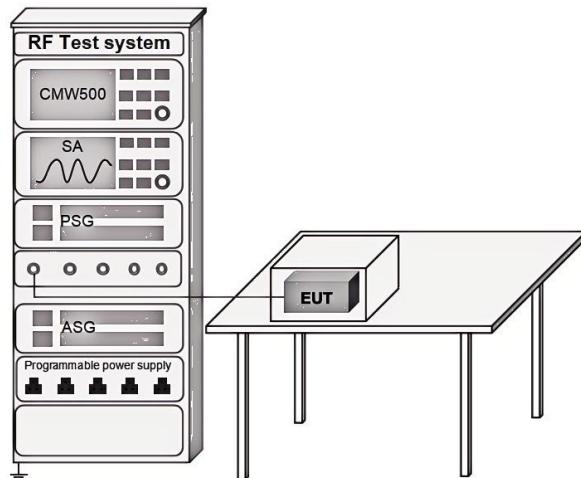
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.7.2 Test setup



6.7.3 Test data

Pass: Please refer to appendix A for details

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6.8 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

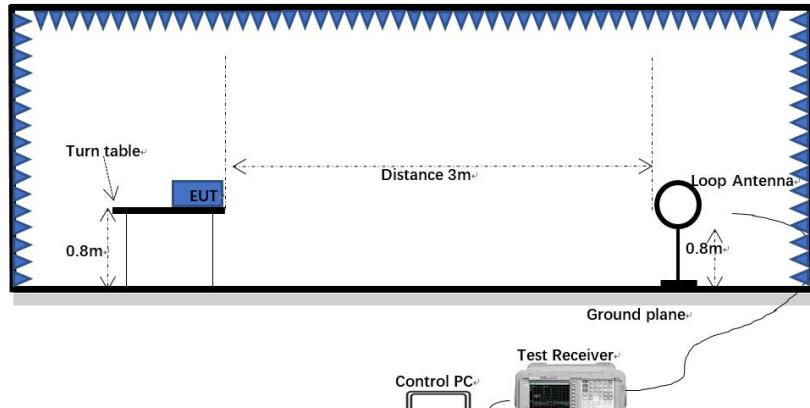
6.8.1 Limit

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

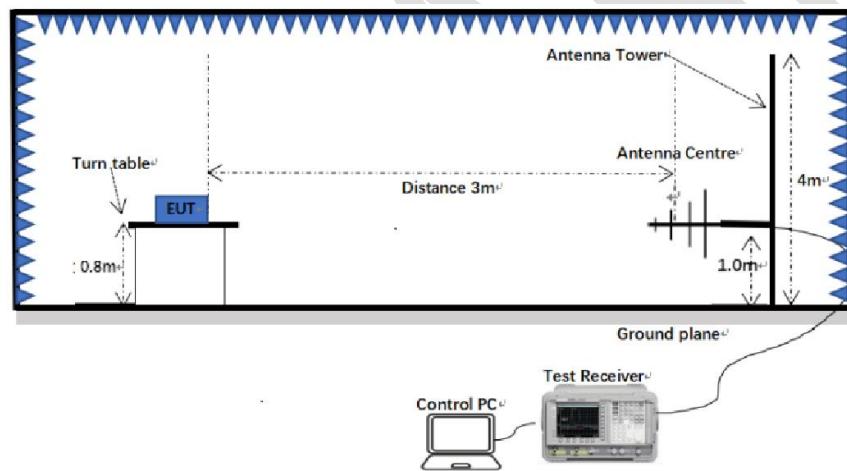
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.8.2 Test setup

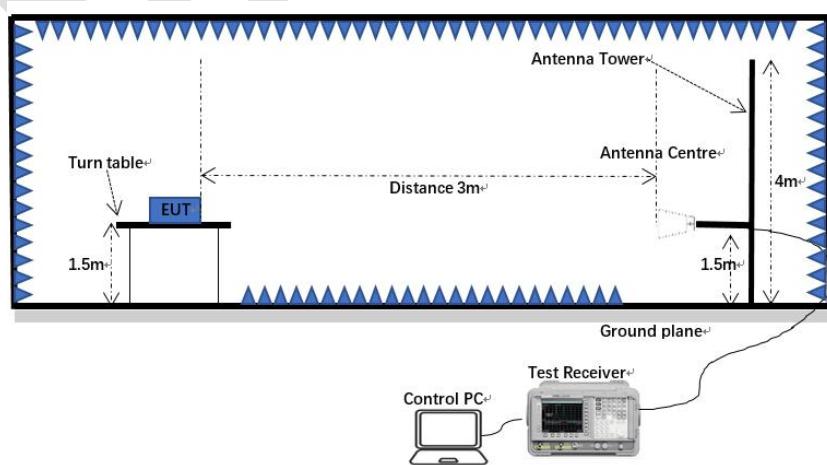
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



6.8.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Scan from 9 kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

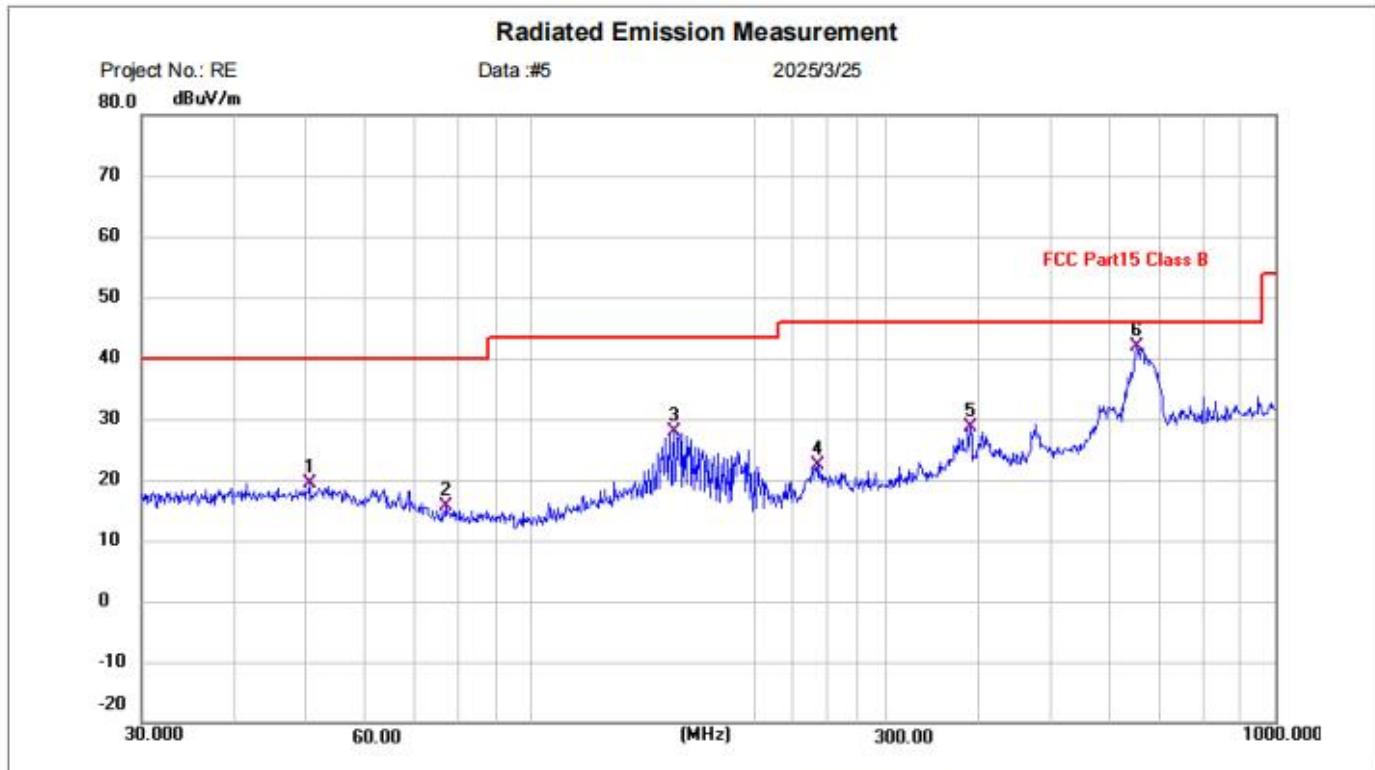
$$\text{Level (dBuV)} = \text{Reading (dBuV)} + \text{Factor (dB/m)}$$

6.8.4 Test data

Below 1GHz

Adapter 1 (FLYPOWER):

[Test mode: TX]; [Polarity: Horizontal]



Site
Limit: FCC Part15 Class B
EUT: aoso Wi-Fi HomeBase H2L
M/N: H2L
Mode: 2.4GWIFI TX Mode
Note:

Polarization: *Horizontal*

Temperature: (C)

Power.

Humidity: 0%RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	50.4089	-0.48	19.81	19.33	40.00	-20.67	QP	P	
2	76.7808	-0.17	15.78	15.61	40.00	-24.39	QP	P	
3	155.9101	7.22	20.61	27.83	43.50	-15.67	QP	P	
4	243.3772	4.33	17.93	22.26	46.00	-23.74	QP	P	
5	389.3549	6.26	22.38	28.64	46.00	-17.36	QP	P	
6 *	651.9417	14.14	27.67	41.81	46.00	-4.19	QP	P	

Test Result: Pass

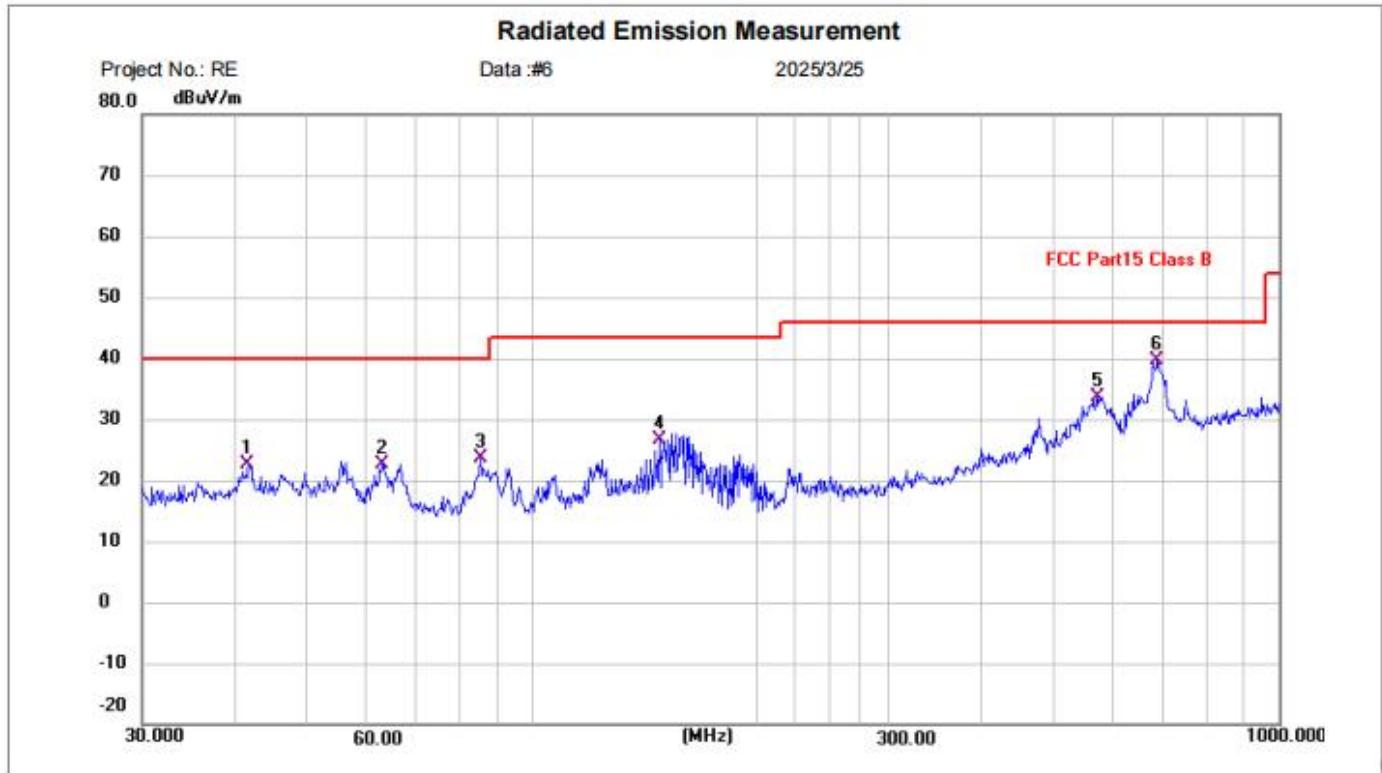
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[Test mode: TX]; [Polarity: Vertical]



Site
Limit: FCC Part15 Class B
EUT: aoso Wi-Fi HomeBase H2L
M/N: H2L
Mode: 2.4GWIFI TX Mode
Note:

Polarization: **Vertical**

Power:

Temperature: (C)

Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	41.7129	3.02	19.65	22.67	40.00	-17.33	QP	P	
2	62.8708	4.58	18.09	22.67	40.00	-17.33	QP	P	
3	85.2980	8.12	15.46	23.58	40.00	-16.42	QP	P	
4	147.9214	6.11	20.64	26.75	43.50	-16.75	QP	P	
5	572.6144	7.78	25.86	33.64	46.00	-12.36	QP	P	
6 *	687.1507	11.56	27.97	39.53	46.00	-6.47	QP	P	

Test Result: Pass

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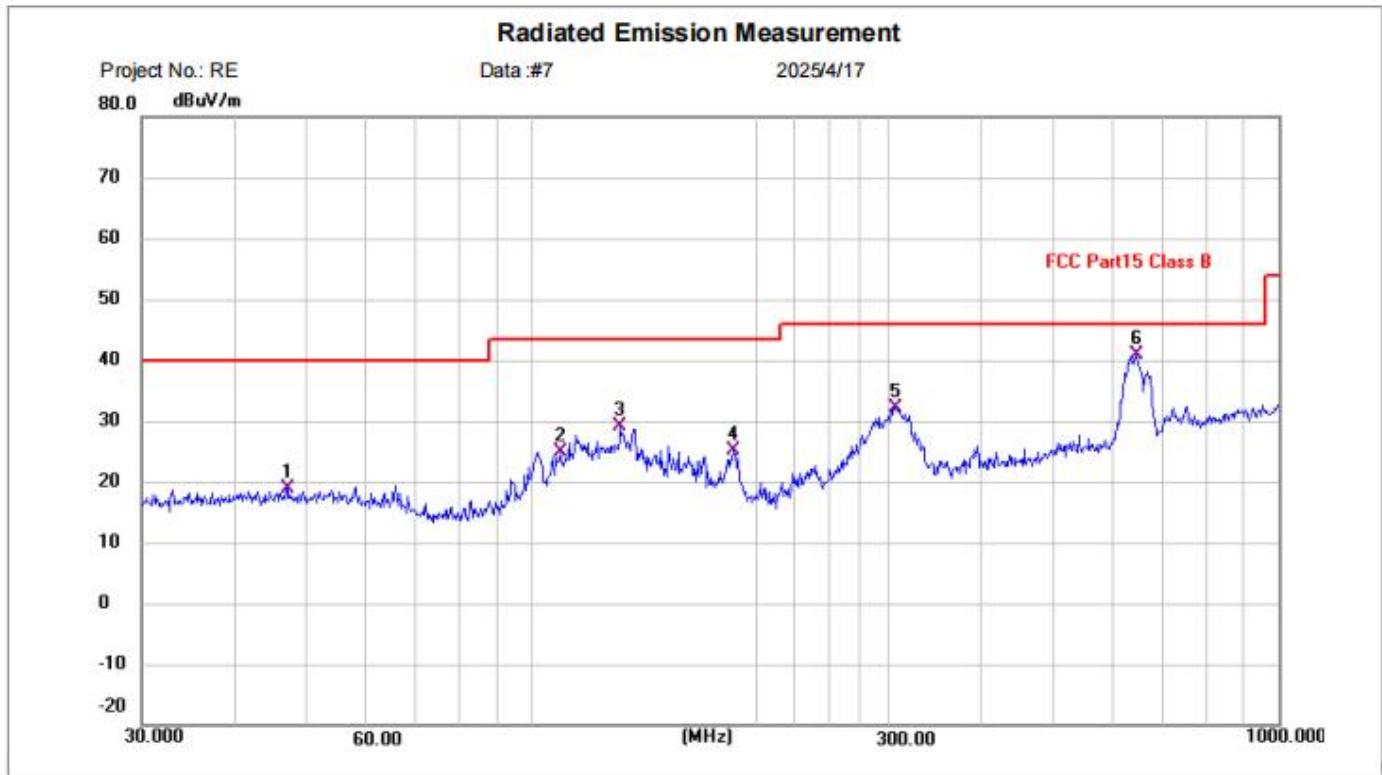
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Adapter 2 (TEKA):

[Test mode: TX]; [Polarity: Horizontal]



Site

Limit: FCC Part15 Class B

Polarization: **Horizontal**

Temperature: (C)

EUT: aoso Wi-Fi HomeBase H2L

Power:

Humidity: %RH

M/N: H2L

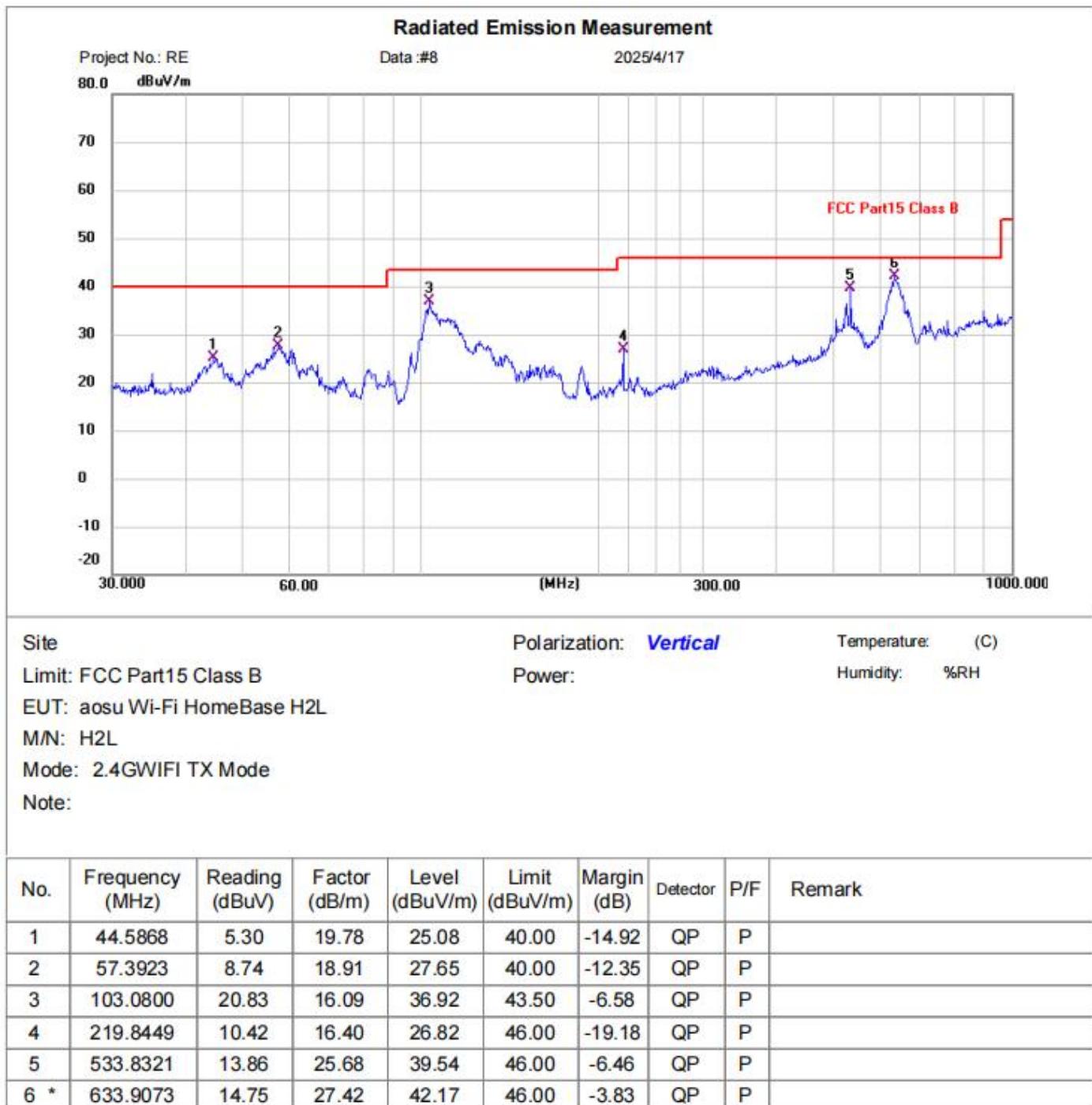
Mode: 2.4GWIFI TX Mode

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	47.1599	-0.60	19.44	18.84	40.00	-21.16	QP	P	
2	109.0286	7.98	17.02	25.00	43.50	-18.50	QP	P	
3	131.2965	9.49	19.63	29.12	43.50	-14.38	QP	P	
4	185.7882	7.61	17.62	25.23	43.50	-18.27	QP	P	
5	306.7537	11.93	20.25	32.18	46.00	-13.82	QP	P	
6 *	645.1195	13.31	27.62	40.93	46.00	-5.07	QP	P	

Test Result: Pass

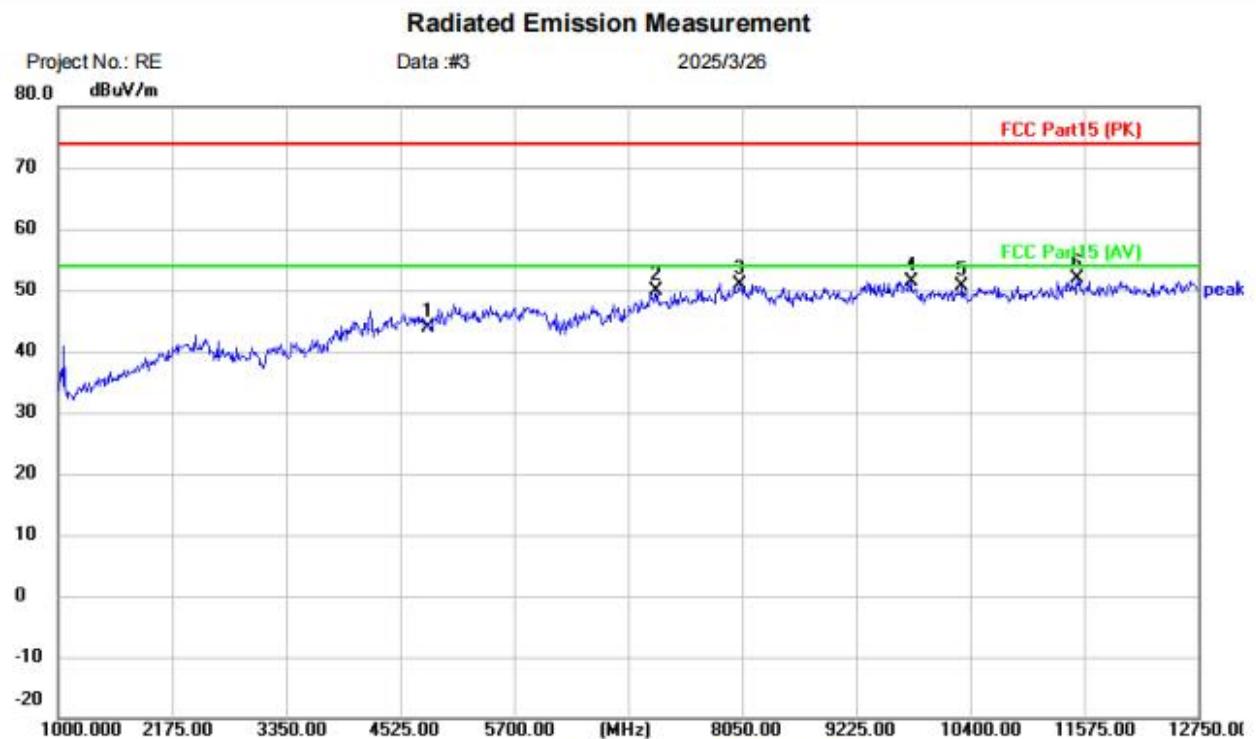
[Test mode: TX]; [Polarity: Vertical]



Test Result: Pass

Above 1GHz:

[Test mode: TX low channel]; [Polarity: Horizontal]



Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: aoso Wi-Fi HomeBase H2L		
M/N: H2L		
Mode: 11B-2412		
Note:		

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment		Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4824.000	37.63	6.29	43.92	74.00	-30.08	peak
2		7168.750	39.26	10.57	49.83	74.00	-24.17	peak
3		8026.500	39.14	11.65	50.79	74.00	-23.21	peak
4		9789.000	37.75	13.67	51.42	74.00	-22.58	peak
5		10317.75	37.17	13.55	50.72	74.00	-23.28	peak
6	*	11504.50	37.05	14.87	51.92	74.00	-22.08	peak

Test Result: Pass

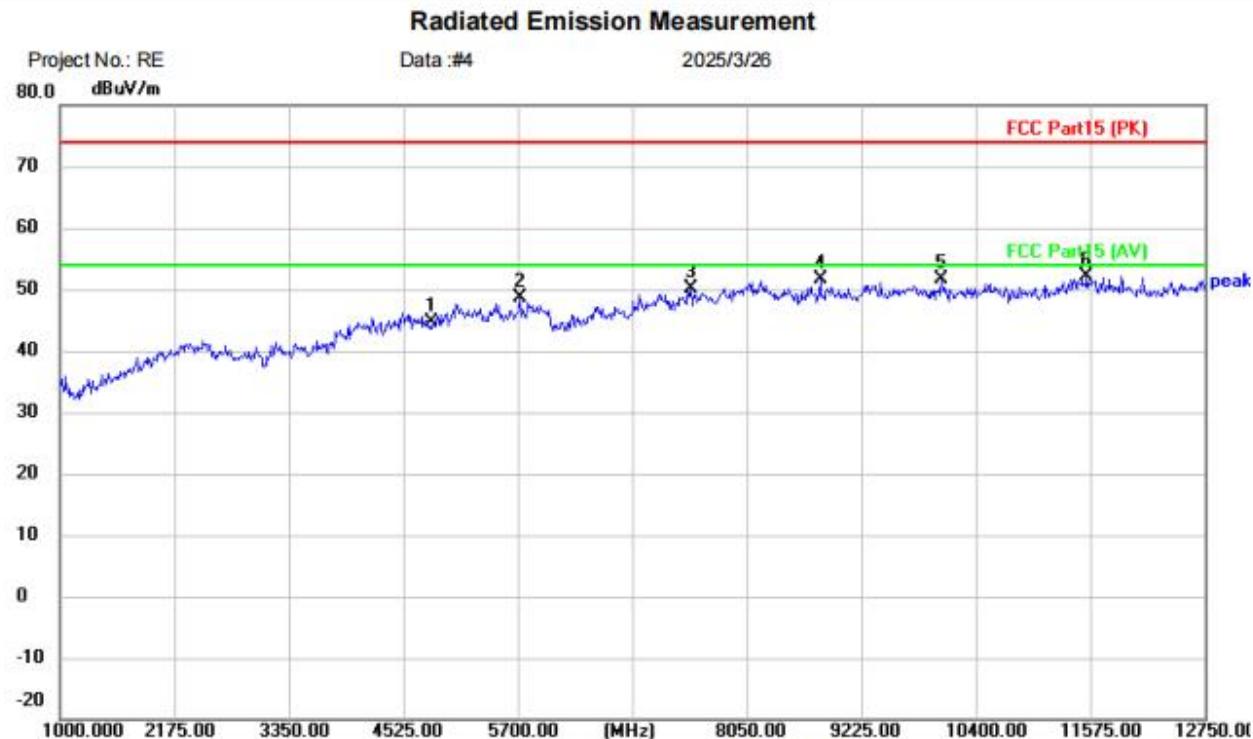
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[Test mode: TX low channel]; [Polarity: Vertical]



Site: Limit: FCC Part15 (PK) EUT: aoso Wi-Fi HomeBase H2L M/N: H2L Mode: 11B-2412 Note: Polarization: **Vertical** Power: Temperature: (C) Humidity: %RH

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment		Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4824.000	38.42	6.29	44.71	74.00	-29.29	peak
2		5723.500	40.07	8.52	48.59	74.00	-25.41	peak
3		7474.250	39.15	10.94	50.09	74.00	-23.91	peak
4		8802.000	39.27	12.27	51.54	74.00	-22.46	peak
5		10047.50	38.31	13.26	51.57	74.00	-22.43	peak
6	*	11539.75	37.41	14.83	52.24	74.00	-21.76	peak

Test Result: Pass

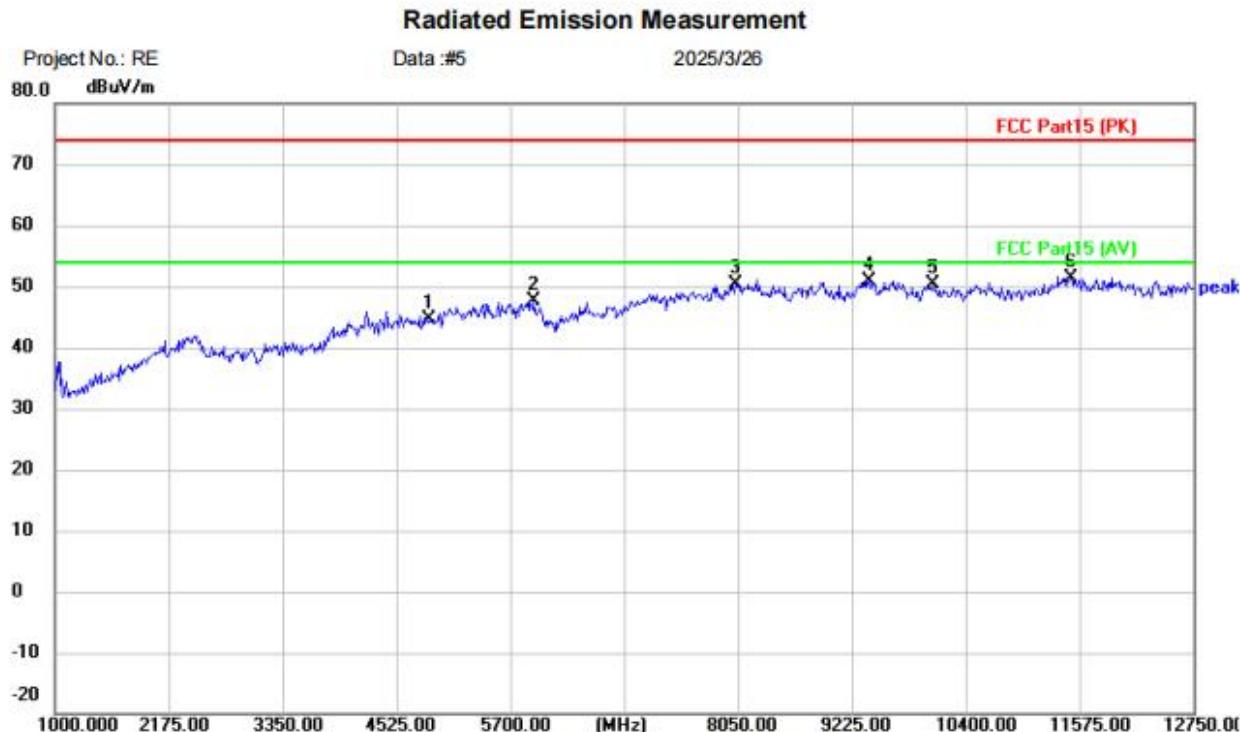
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Version:v1.2

[Test mode: TX middle channel]; [Polarity: Horizontal]



Site Polarization: *Horizontal* Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: aoso Wi-Fi HomeBase H2L

M/N: H2L

Mode: 11B-2437

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment		dB	Detector
1		4874.000	38.35	6.39	44.74	74.00	-29.26	peak
2		5946.750	38.69	9.03	47.72	74.00	-26.28	peak
3		8026.500	38.74	11.65	50.39	74.00	-23.61	peak
4		9401.250	38.19	12.72	50.91	74.00	-23.09	peak
5		10059.25	37.18	13.26	50.44	74.00	-23.56	peak
6	*	11492.75	36.65	14.82	51.47	74.00	-22.53	peak

Test Result: Pass

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Version:v1.2

[Test mode: TX middle channel]; [Polarity: Vertical]

Radiated Emission Measurement

Project No.: RE
80.0 dBuV/m

Data : #6

2025/3/26



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: aoso Wi-Fi HomeBase H2L

M/N: H2L

Mode: 11B-2437

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
			Level	Factor	ment		dB	dBuV/m	Detector
1		4874.000	39.08	6.39	45.47	74.00	-28.53		peak
2		5923.250	38.77	9.06	47.83	74.00	-26.17		peak
3		7133.500	38.24	10.57	48.81	74.00	-25.19		peak
4		8343.750	39.49	10.91	50.40	74.00	-23.60		peak
5	*	9659.750	37.11	13.52	50.63	74.00	-23.37		peak
6		11187.25	36.73	13.27	50.00	74.00	-24.00		peak

Test Result: Pass

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Version:v1.2

[Test mode: TX High channel]; [Polarity: Horizontal]

Radiated Emission Measurement

Project No.: RE

Data #7

2025/3/26



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: aoso Wi-Fi HomeBase H2L

M/N: H2L

Mode: 11B-2462

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	37.93	6.89	44.82	74.00	-29.18	peak	
2		6945.500	39.51	9.74	49.25	74.00	-24.75	peak	
3		8802.000	37.81	12.27	50.08	74.00	-23.92	peak	
4	*	9965.250	37.93	13.23	51.16	74.00	-22.84	peak	
5		10776.00	37.24	12.94	50.18	74.00	-23.82	peak	
6		11857.00	37.49	13.53	51.02	74.00	-22.98	peak	

Test Result: Pass

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Version:v1.2

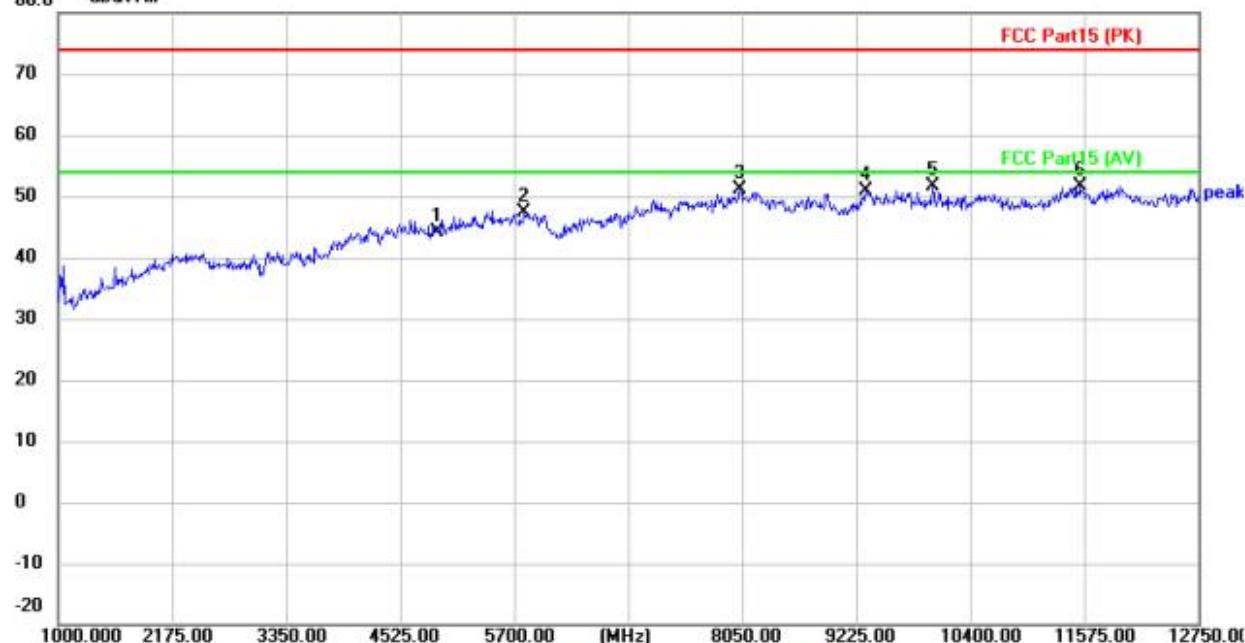
[Test mode: TX High channel]; [Polarity: Vertical]

Radiated Emission Measurement

Project No.: RE

Data 部

2025/3/26



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: aoso Wi-Fi HomeBase H2L

M/N: H2L

Mode: 11B-2462

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment		dB	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4924.000	37.28	6.89	44.17	74.00	-29.83	peak
2		5805.750	38.31	9.00	47.31	74.00	-26.69	peak
3		8026.500	39.40	11.65	51.05	74.00	-22.95	peak
4		9319.000	37.71	13.21	50.92	74.00	-23.08	peak
5	*	10012.25	38.36	13.23	51.59	74.00	-22.41	peak
6		11528.00	36.72	14.83	51.55	74.00	-22.45	peak

Test Result: Pass

Note: The disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. During the test, pre-scan the 802.11b/g/n20/n40 mode, and found the 802.11b mode which it is worse case.

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